

# Converting Colors

XYZ(48.5163, 70.0845, 99.2497)

Have a look what the booklet for  
XYZ(48.5163, 70.0845, 99.2497)  
contains.

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# Color

**XYZ(48.5406, 70.2197,  
98.9911)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F2F7
RGB	0, 242, 247
RGB Percent	0%, 95%, 97%
CMY	0.9997, 0.0510, 0.0314
CMYK	1.00, 0.02, 0.00, 0.03
HSL	181°, 100%, 48%
HSV	181°, 100%, 97%
XYZ	48.5406, 70.2197, 98.9911
YIQ	170.2120, -145.8370, -49.7490

# Conversions

## Conversions Part 2

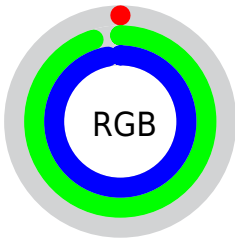
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 122, 247
Decimal	62199
CIELab	87.10, -44.75, -15.98
CIELCh	87, 47.523, 199.654
Yxy	70.2197, 0.2229, 0.3225
Android (android.graphics.Color)	4278252279 (0xFF00F2F7)
YUV	170.2120, 37.8565, -149.2759
Hunter-Lab	83.7972, -43.2467, -11.3823

# Details

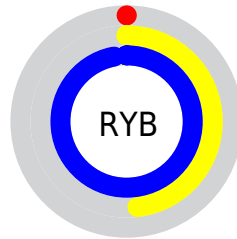
The XYZ color **48.5406, 70.2197, 98.9911** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light saturated cyan. A complement of this color would be **38.4137, 19.8845, 1.8153**, and the grayscale version is **38.1940, 40.1830, 43.7593**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **26.7529, 38.4595, 55.3036** is the 20% darker color. If you saturate the color by 10%, you get **48.5415, 70.2211, 98.9926**, and if you desaturate by 10%, it is **49.0861, 70.7236, 99.0609**.

# Distribution



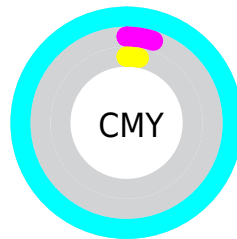
- Red (0%)
- Green (95%)
- Blue (97%)



- Red (0%)
- Yellow (48%)
- Blue (97%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (3%)




- Cyan (100%)
- Magenta (5%)
- Yellow (3%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.5406, 70.2197, 98.9911 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 48.5406, 70.2197, 98.9911 by changing the saturation by 10% instead.





 48.5406, 70.2197,  
98.9911


 48.5406, 70.2197,  
98.9911


371.4780,  
461.3210, 578.1722


 34.4682, 51.7057,  
74.8460


 87.2136, 119.5220,  
161.8098

 23.4181, 36.7705,  
54.9858

 112.5449,  
151.0791, 201.3205


 15.0249, 25.0299,  
38.9918


 142.3600,  
187.7526, 246.7902

 8.9233, 16.0993,  
26.4456

 177.0240,  
229.9270, 298.6374

 4.7479, 9.5945,  
16.9285

 216.9025,  
277.9866, 357.2807

 2.1334, 5.1309,  
10.0221

262.3608,

 0.7073, 2.3243,

332.3159, 423.1386

5.3078

313.7641,  
393.2993, 496.6295

■ 0.0000, 0.7865,  
2.3671

■ 0.0000, 0.0000,  
0.7685

■ 48.5406, 70.2197,  
98.9911

■ 48.5406, 70.2197,  
98.9911

■ 48.5415, 70.2211,  
98.9926

■ 49.0861, 70.7236,  
99.0609

■ 50.1296, 71.4833,  
99.1526

■ 51.8270, 72.5808,  
99.2749

■ 54.2714, 74.0640,  
99.4324

■ 57.5407, 75.9730,  
99.6285

■ 61.7031, 78.3430,  
99.8666

■ 66.8198, 81.2056,  
100.1495

■ 72.9464, 84.5894,  
100.4797

■ 80.1344, 88.5210,  
100.8597

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



47.8170, 70.2197, 65.9650



48.5406, 70.2197, 98.9911



53.8177, 70.2197, 133.3602

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.5406, 70.2197, 98.9911



84.4260, 70.2197, 123.4227



70.6613, 70.2197, 30.6085

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



48.5406, 70.2197, 98.9911



38.4137, 19.8845, 1.8153

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



81.5850, 70.2197, 38.5985



48.5406, 70.2197, 98.9911



90.0978, 70.2197, 88.0071

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.5406, 70.2197, 98.9911



74.2051, 70.2197, 149.9625



89.0039, 70.2197, 57.6323



59.7964, 70.2197, 32.0288



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.5406, 70.2197, 98.9911



59.5707, 70.2197, 149.5657



89.0039, 70.2197, 57.6323



74.4663, 70.2197, 32.1709

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



48.5428, 70.2223, 98.9928



71.7931, 87.2803, 107.6706



33.2850, 66.5321, 11.2077



14.8425, 18.3895, 23.0172



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.5428, 70.2223, 98.9928



52.1855, 75.4910, 106.4285



23.4362, 20.0093, 90.6240



16.9663, 18.6968, 21.2572



25.6852, 37.1642, 52.3577



2.2665, 3.2844, 4.6047



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



54.3866, 26.1869, 86.1953



58.4700, 28.1520, 92.6621



46.0322, 35.1216, 4.3549



17.1983, 16.7622, 20.7908



28.7692, 13.8511, 45.6206

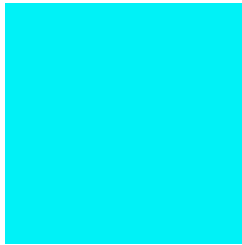


2.5331, 1.2192, 4.0335



# Previews

## White Background



This preview shows how the XYZ color 48.5406, 70.2197, 98.9911 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

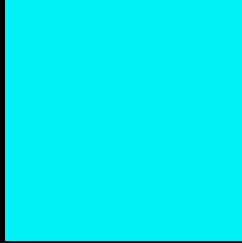
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.5406, 70.2197, 98.9911 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

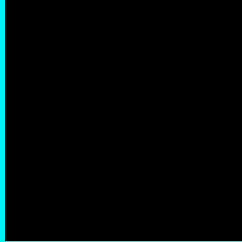
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

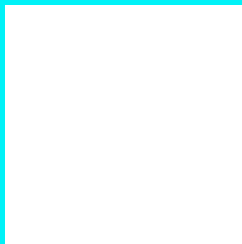
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 48.5406, 70.2197, 98.9911

## Background



This preview shows how black text looks on a background with the XYZ color 48.5406, 70.2197, 98.9911.



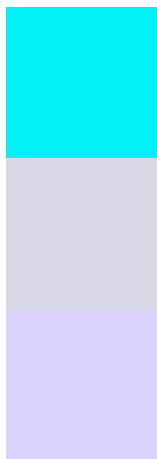
This preview shows how white text looks on a background with the XYZ color 48.5406, 70.2197,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

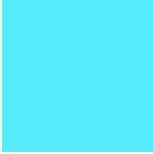
48.5406, 70.2197, 98.9911

### Protanopia

66.9023, 68.9130, 84.6383

### Deuteranopia

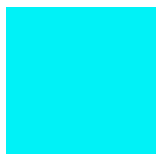
70.3971, 68.8044, 103.3362



## **Tritanopia**

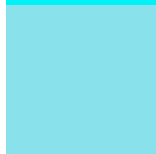
52.2647, 69.8146, 105.3287

# Trichromacy



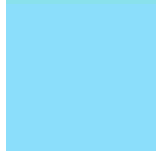
## Original Color

48.5406, 70.2197, 98.9911



## Protanomaly

52.3821, 65.2249, 89.1857



## Deuteranomaly

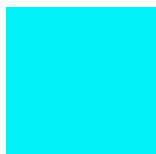
54.1813, 64.6966, 100.8988



## Tritanomaly

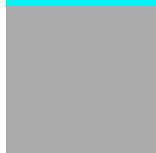
50.0127, 69.5735, 102.8885

# Monochromacy



## Original Color

48.5406, 70.2197, 98.9911



## Achromatopsia

38.2080, 40.1978, 43.7754



## Achromatomaly

36.1173, 46.7452, 60.5452

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.5406, 70.2197, 98.9911 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(0, 242, 247)` looks like.

```
.text, #text, p{  
    color:rgb(0, 242, 247)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(0, 242, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 242, 247) }
```

## Border

The CSS property to change the border of an element to XYZ 48.5406, 70.2197, 98.9911 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(0, 242, 247) }
```



If only the border color should be changed use the property border-color.

```
.border{ border-color:rgb(0, 242, 247) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel rgb(0, 242, 247) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 242, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 242, 247);  
box-shadow:4px 4px 4px 4px rgb(0, 242,  
247) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.5406, 70.2197, 98.9911 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 242, 247) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(0, 242,  
247) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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